

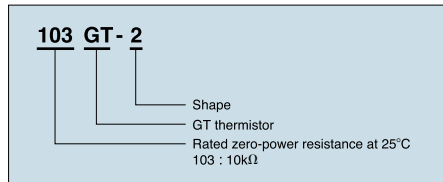
HIGH HEAT-RESISTANCE AND HIGH SENSITIVE THERMISTOR

GT THERMISTOR

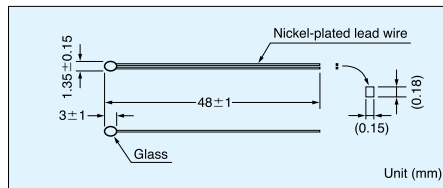
GT thermistor is combined both superior feature of BT thermistor and ET thermistor as fast response time, high reliability, wide category temperature range, high moisture proof, high accuracy and reasonable price.

GT thermistor is made up of a high quality thermistor element and the lead wire is connected to the thermistor element by alloyed technology, and glass coating for the thermistor element.

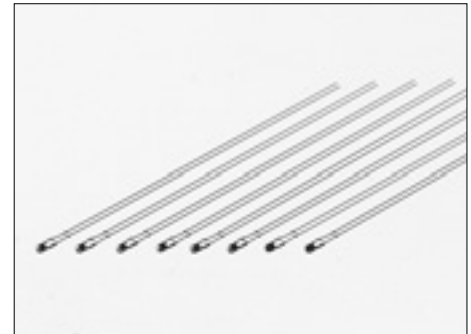
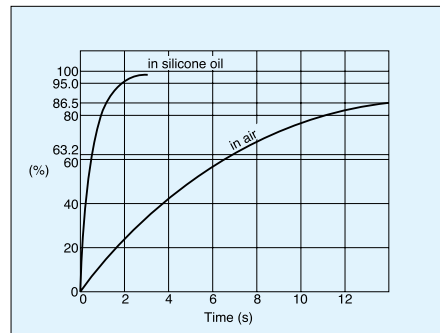
Part number



Dimensions



Time constant



Specifications

Part No.	R ₂₅ *1	B value*2	Dissipation factor (mW/°C) Approx.	Thermal time constant(s) ^{*3} Approx.	Rated maximum power dissipation (at 25°C)(mW)	Category temp. range(°C)
102GT-2	1.0kΩ±3%	3305K±2%	0.6	7(0.6)	3	-50~200
202GT-2	2.0kΩ±3%	3838K±2%	0.6	7(0.6)	3	-50~300
502GT-2	5.0kΩ±3%	3964K±2%	0.6	7(0.6)	3	-50~300
103GT-2	10.0kΩ±3%	4126K±2%	0.6	7(0.6)	3	-50~300
203GT-2	20.0kΩ±3%	4282K±2%	0.6	7(0.6)	3	-50~300
503GT-2	50.0kΩ±3%	4288K±2%	0.6	7(0.6)	3	-50~300
104GT-2	100.0kΩ±3%	4267K±2%	0.6	7(0.6)	3	-50~300
204GT-2	200.0kΩ±3%	4338K±2%	0.6	7(0.6)	3	-50~300
504GT-2	500.0kΩ±3%	4526K±2%	0.6	7(0.6)	3	-50~300
105GT-2	1000.0kΩ±3%	4608K±2%	0.6	7(0.6)	3	-50~300

Resistance-Temperature

Part No.	Rated zero-power resistance	B value*2	Dissipation factor (mW/°C) Approx.	Thermal time constant(s) ^{*3} Approx.	Rated maximum power dissipation (at 25°C)(mW)	Category temp. range(°C)
852GT-2-20155	R50=3.485kΩ±5%	B0/100=3450K±2%	0.6	7(0.6)	3	-50~300
852GT-2-20156	R50=3.485kΩ±3%	B0/100=3450K±2%	0.6	7(0.6)	3	-50~300
493GT-2-20157	R5=127kΩ±2%	B0/100=3970K±2%	0.6	7(0.6)	3	-50~300
493GT-2-20158	R5=127kΩ±1.5%	B0/100=3970K±2%	0.6	7(0.6)	3	-50~300
493GT-2-20159	R75=7.214kΩ±3%	B0/100=3970K±2%	0.6	7(0.6)	3	-50~300
542GT-2-20184	R75=0.7331kΩ±3%	B0/100=3450K±2%	0.6	7(0.6)	3	-50~300
252GT-2-20185	R0=6kΩ±5%	B0/100=3390K±2%	0.6	7(0.6)	3	-50~300
542GT-2-20186	R0=15kΩ±3%	B0/100=3450K±2%	0.6	7(0.6)	3	-50~300
542GT-2-20187	R0=15kΩ±2.5%	B0/100=3450K±2%	0.6	7(0.6)	3	-50~300
493GT-2-20188	R40=26.06kΩ±2%	B0/100=3970K±2%	0.6	7(0.6)	3	-50~300
234GT-2-20194	R25=231.44kΩ±3%	B100/200=4537K±1%	0.6	7(0.6)	3	-50~300
234GT-2-20195	R150=3.161kΩ±3%	B100/200=4537K±2%	0.6	7(0.6)	3	-50~300
103GT-2-20196	R25=10kΩ±1%	B25/85=3435K±1%	0.6	7(0.6)	3	-50~300
252GT-2-20197	R25=2.5kΩ±2.5%	B0/100=3390K±2%	0.6	7(0.6)	3	-50~300
262GT-2-20198	R0=8kΩ±1%	B25/50=3745K±2%	0.6	7(0.6)	3	-50~300
103GT-2-20199	R25=10kΩ±5%	B25/125=3980K±2%	0.6	7(0.6)	3	-50~300
104GT-2-20201	R25=100kΩ±3%	B100/200=4300K±3%	0.6	7(0.6)	3	-50~300
145GT-2-20203	R200=4kΩ±5%	B200/300=5133K±3%	0.6	7(0.6)	3	-50~300
333GT-2-20204	R125=1.509kΩ±3%	B0/100=3570K±2%	0.6	7(0.6)	3	-50~300
303GT-2-20205	R25=30kΩ±3%	B0/100=3970K±2%	0.6	7(0.6)	3	-50~300

*1 R₂₅ : Rated zero-power resistance value at 25°C.

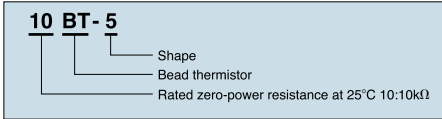
*2 B value : determined by rated zero-power resistance at 25°C and 85°C.

*3 Time when thermistor temperature reaches 63.2% of the temperature difference. The value is measured in the air. (silicone oil)

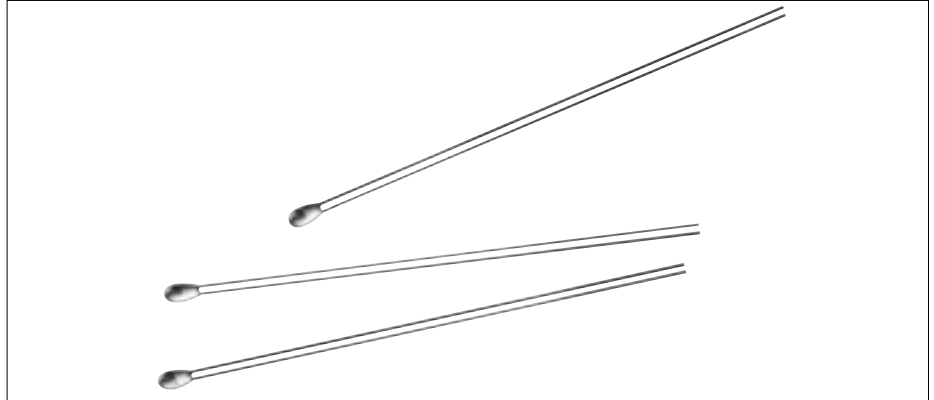
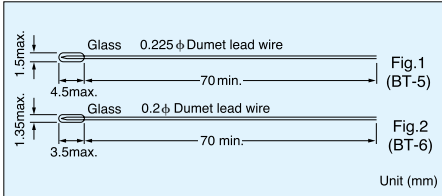
BT THERMISTOR

The BT thermistor is a small thermal sensing device providing high reliability, stable characteristics and a wide operating range of -50°C to 300°C. It is used in various applications including medical apparatus, industrial equipment and home electric appliances.

Part number



Dimensions



Specifications

Part No.	R ₂₅ ¹	B value ²	Dissipation factor (mW/°C) Approx.	Thermal time constant(s) ³ Approx.	Rated maximum power dissipation (at 25°C)(mW)	Category temp. range(°C)
1BT-5	1.000kΩ±10%	3,250K±3%	0.5	4~12	2.5	-50~150
2BT-5	2.000kΩ±10%	3,420K±3%	0.5	4~12	2.5	-50~300
5BT-5(6)	5.000kΩ±10%	3,450K±3%	0.5(0.4)	4~12(3~8)	2.5(2)	-50~300
9BT-5(6)	9.000kΩ±10%	3,470K±3%	0.5(0.4)	4~12(3~8)	2.5(2)	-50~150
10BT-5(6)	10.00kΩ±10%	3,250K±3%	0.5(0.4)	4~12(3~8)	2.5(2)	-50~300
20BT-5(6)	20.00kΩ±10%	3,330K±3%	0.5(0.4)	4~12(3~8)	2.5(2)	-50~300
30BT-5(6)	30.00kΩ±10%	3,450K±3%	0.5(0.4)	4~12(3~8)	2.5(2)	-50~300
40BT-5(6)	40.00kΩ±10%	3,550K±3%	0.5(0.4)	4~12(3~8)	2.5(2)	-50~300
100BT-5(6)	100.0kΩ±10%	3,750K±3%	0.5(0.4)	4~12(3~8)	2.5(2)	-50~300
400BT-5(6)	400.0kΩ±10%	4,050K±3%	0.5(0.4)	4~12(3~8)	2.5(2)	-50~300
500BT-5(6)	500.0kΩ±10%	3,760K±3%	0.5(0.4)	4~12(3~8)	2.5(2)	-50~300
1.3MBT-5(6)	1300kΩ±10%	4,380K±3%	0.5(0.4)	4~12(3~8)	2.5(2)	-50~300

*1 R₂₅ : Rated zero-power resistance value at 25°C, ±5% are also available.

*2 B value : determined by rated zero-power resistance at 25°C and 85°C.

*3 Time when thermistor temperature reaches 63.2% of the temperature difference. The value is measured in the air

Resistance-Temperature

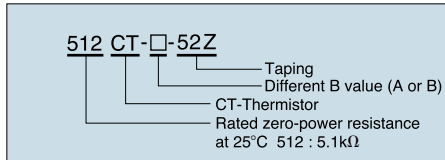
Temperature (°C)	Type											
	1BT	2BT	5BT	9BT	10BT	20BT	30BT	40BT	100BT	400BT	500BT	1.3MBT
-50	29.87	70.71		344.8	284.8	686.7			4860			
-40	17.33	40.02		190.3	163.4	383.1			2599	11043		
-30	10.35	23.28		109.1	97.62	222.6			1439	6198		
-20	6.374	13.96	35.44	64.81	60.41	134.2		306.8	827.4	3573		
-10	4.038	8.640	21.84	39.70	38.63	83.61		184.7	491.1	2109		8066
0	2.629	5.513	13.87	25.15	25.45	53.75	83.80	115.0	301.4	1274	1486	4598
10	1.755	3.610	9.057	16.36	17.22	35.53	54.46	73.88	190.1	788.4	945.3	2718
20	1.200	2.421	6.060	10.92	11.92	24.09	36.37	48.77	123.1	498.7	614.7	1652
25	1.000	2.000	5.000	9.000	10.00	20.00	30.00	40.00	100.0	400.0	500.0	1300
30	0.8380	1.661	4.148	7.456	8.434	16.70	24.88	33.00	81.71	322.4	408.9	1029
40	0.5973	1.163	2.898	5.200	6.084	11.81	17.39	22.82	55.39	212.8	277.7	656.0
50	0.4338	0.8311	2.065	3.698	4.456	8.511	12.40	16.10	38.31	143.3	192.1	427.8
60	0.3205	0.6043	1.497	2.677	3.303	6.248	8.990	11.57	27.00	98.24	135.3	284.5
70	0.2407	0.4468	1.104	1.970	2.460	4.658	6.629	8.457	19.38	68.52	96.90	193.0
80	0.1834	0.3357	0.8267	1.473	1.850	3.522	4.962	6.279	14.14	48.50	70.47	133.0
90	0.1417	0.2559	0.6280	1.117	1.405	2.698	3.767	4.730	10.48	34.91	52.00	92.76
100	0.1110	0.1978	0.4836	0.8581	1.078	2.093	2.897	3.611	7.866	25.47	38.90	65.53
110	0.08789	0.1547	0.3771	0.6685	0.8355	1.640	2.255	2.792	5.968	18.83	29.49	46.91
120		0.1224	0.2975	0.5264	0.6540	1.296	1.774	2.182	4.580	14.10	22.63	34.03
130		0.09789	0.2373	0.4191	0.5171	1.027	1.410	1.727	3.551	10.68	17.55	25.02
140		0.07908	0.1913	0.3369	0.4126	0.8190	1.130	1.378	2.782	8.180	13.76	18.59
150		0.06450	0.1556	0.2735	0.3321	0.6581	0.9113	1.107	2.201	6.332	10.90	13.99
160			0.1278		0.2696	0.5327	0.7374	0.8943	1.757	4.957	8.717	10.63
170			0.1058		0.2207	0.4345	0.5997	0.7252	1.416	3.915	7.034	8.163
180			0.08836		0.1818	0.3567	0.4909	0.5915	1.150	3.120	5.722	6.336
190			0.07432		0.1508	0.2947	0.4048	0.4859	0.9418	2.508	4.692	4.965
200			0.06295		0.1258	0.2451	0.3360	0.4018	0.7770	2.032	3.876	3.926
210					0.1056	0.2052	0.2808	0.3344	0.6458	1.658	3.225	3.131
220							0.2360	0.2802	0.5403	1.363	2.702	2.517
230							0.1995	0.2361	0.4551	1.127	2.277	2.039
240							0.1695	0.2000	0.3855	0.9390	1.930	1.663
250							0.1447	0.1704	0.3286	0.7864	1.644	1.366
260							0.1243	0.1458	0.2816	0.6626	1.407	1.129
270							0.1072	0.1255	0.2426	0.5613	1.209	0.9398
280							0.09283	0.1084	0.2100	0.4780	1.041	0.7871
290							0.08078	0.09408	0.1826	0.4091	0.8995	0.6628
300							0.07060	0.08200	0.1595	0.3518	0.7810	0.5612

Unit(KΩ)

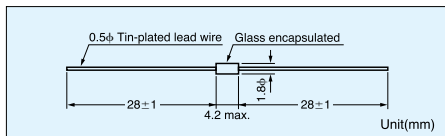
CT THERMISTOR

The CT thermistor is a thermal sensor in a DO35 package. Similar to the BT thermistor, it is highly reliable and offers a wide operating range of -50°C to (150°C) 250°C . It is primarily used in home electric appliances and features a competitive price for full-automated manufacturing system.

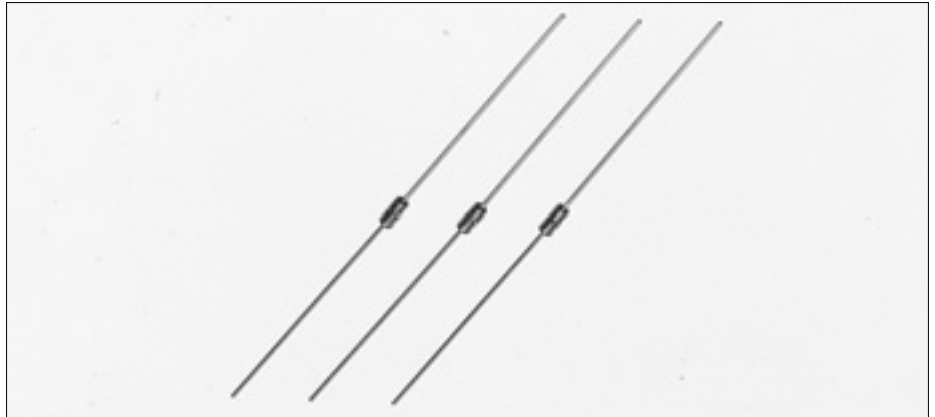
Part number



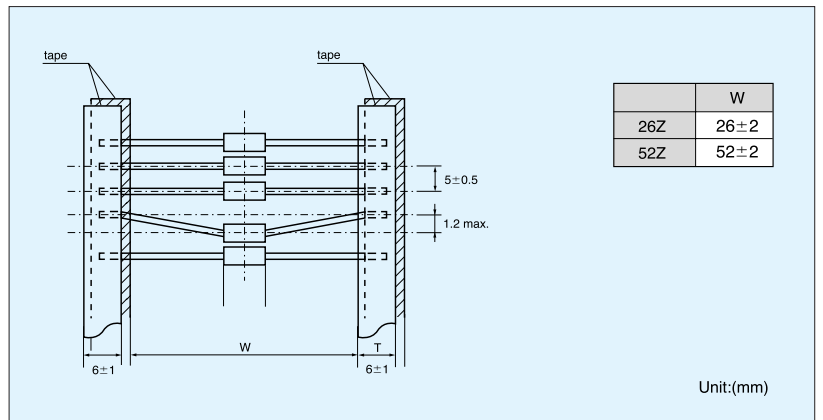
Dimensions



To allow automatic insertion, this product can be taped.



Taping Specification



Resistance-Temperature

Part No.	R_{25}^{*1}	B value ^{*2}	Dissipation factor (mW/°C) Approx.	Thermal time constant(s) ^{*3} Approx.	Rated maximum power dissipation (at 25°C)(mW)	Category temp. range(°C) ^{*4}
252CT	$2.5\text{k}\Omega \pm 5\%$	$3800\text{K} \pm 2\%$	2.0	16	250	$-40 \sim (150)250$
302CT	$3.0\text{k}\Omega \pm 5\%$	$3750\text{K} \pm 2\%$	2.0	16	250	$-40 \sim (150)250$
502CT-A	$5.0\text{k}\Omega \pm 5\%$	$3450\text{K} \pm 2\%$	2.0	16	250	$-40 \sim (150)250$
502CT-B	$5.0\text{k}\Omega \pm 5\%$	$3950\text{K} \pm 2\%$	2.0	16	250	$-40 \sim (150)250$
902CT	$9.0\text{k}\Omega \pm 5\%$	$3700\text{K} \pm 2\%$	2.0	16	250	$-40 \sim (150)250$
103CT-A	$10.0\text{k}\Omega \pm 5\%$	$3700\text{K} \pm 2\%$	2.0	16	250	$-40 \sim (150)250$
103CT-B	$10.0\text{k}\Omega \pm 5\%$	$3950\text{K} \pm 2\%$	2.0	16	250	$-40 \sim (150)250$
203CT-A	$20.0\text{k}\Omega \pm 5\%$	$3700\text{K} \pm 2\%$	2.0	16	250	$-40 \sim (150)250$
203CT-B	$20.0\text{k}\Omega \pm 5\%$	$3950\text{K} \pm 2\%$	2.0	16	250	$-40 \sim (150)250$
503CT	$50.0\text{k}\Omega \pm 5\%$	$3950\text{K} \pm 2\%$	2.0	16	250	$-40 \sim (150)250$
104CT	$100.0\text{k}\Omega \pm 5\%$	$3950\text{K} \pm 2\%$	2.0	16	250	$-40 \sim (150)250$
204CT	$200.0\text{k}\Omega \pm 5\%$	$4150\text{K} \pm 2\%$	2.0	16	250	$-40 \sim (150)250$
504CT	$500.0\text{k}\Omega \pm 5\%$	$4300\text{K} \pm 2\%$	2.0	16	250	$-40 \sim (150)250$

*1 R_{25} : Rated zero-power resistance value at 25°C.

*2 B value : determined by rated zero-power resistance at 25°C and 50°C.

*3 Time when thermistor reaches 63.2% of the temperature difference. The value is measured in the air.